### Top Secret

(See inside cover)

25**X**1



PHOTOGRAPHIC INTERPRETATION REPORT

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

# DELTA SERIES SSBN PROGRAM - USSR

Top Secret

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DECEMBER 1976
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#### DELTA-SERIES SSBN PROGRAM, USSR

Summary		
sile submarine (SSBN) produ Severodvinsk Shipyard Comp is probably deeper than that carry a larger missile. Second, the missile bay was hulls. Finally, the observation modified D-II SSBNs (units 5	s about the Delta- (D-) series nuclear-powered ballistic mis- uction were derived from an analysis of photography of the lex, USSR. First, the configuration of the outer hull keel area of the Yankee- (Y-) class SSBN, suggesting a capability to with the construction of the fifth unit and the follow-on units, higher than those of the previous D-class SSBN of large, , ballast cans with the s—8) and their movement from the storage area indicate that carried on these submarines.	25X 25X
carried, unit 5 and similarly	rence in missile bay size and the probable weapon system configured units should be designated as D-III SSBNs. It is he missile bay is increased, D-II SSBN units 1 through 4 and by the SS-NX-18 missile.	
Discussion		
observed in the launch basin When first seen, they wrail C. The supports along lau	class SSBN flotation device supports (Figure 1) were first along launch rail D at Severodvinsk Shipyard 402 were adjacent to Y-class flotation device supports along launch anch rail D were larger than those used in the Y-class launch	25X 25X
sequence:	This observation of the new supports coincided with	25) 25)
the completion of deepening		207
marines, they appear to be at the submarines have a commo port would not be needed for supports, especially in the he SSBN is deeper than that of	evices have been seen attached to both Y- and D-class subtached at the same relative position below the missile bay. If on hull configuration below the waterline, a larger device supthe D-class SSBN. Therefore, this increase in the size of the eight, suggests that the outer hull keel area of the D-series the Y-class SSBN. This change may have been necessary so accommodate the SS-N-8 missile.	
	on was conducted to determine whether there were any	¬ .=.
differences among the D-II SS	BN units,	25) 25)
sile bay height relative to the SSBN unit 1 is similar to that	sk Shipyard 402. Measurements were made to determine mise walking deck and the sail planes. The missile bay of D-II of the D-I SSBNs,	2
the walking deck.		25) 25)
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		25)
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6. Additional measurements were made of three of the first four D-11 SSBNs (possibly	
including unit 1) when they were observed at Olenya Guba Submarine Base	25X1
The missile bays were roughly 3 meters (9.8 feet) above the walking	25X1
deck, approximately the same height as that of unit 1 four D-II	25X1
SSBNs (units 5—8) were at the main quay of Severodvinsk Shipyard 402.	25 <b>X</b> 1
D-II SSBNs were seen there, and another D-II SSBN was on the north ledge of the launch	,
<u></u>	05.74
basin at Severodvinsk Shipyard Yagry Island	25X1
	25 <b>X</b> 1
	Ò
7. In May 1975, 12 new ballast cans were identified at Severodvinsk Shipyard 402.	
Eight of the new cans were near construction hall No 2, and four were in the storage area	p
near the calibration quay. The new ballast cans are 1	25X1
longer than the SS-N-8 ballast cans. By the end of April 1976, at least 25 of the	25X1
larger ballast cans were in the storage area (Figure 2). The only known submarine-launched	20/(1
ballistic missile of comparable size under development is the SS-NX-18 missile. These	
larger ballast cans are believed to be associated with this system and will be designated as	
SS-NX-18 ballast cans.	
8. The SS-NX-18 ballast cans were first associated with a specific class of submarine	
On that date four of these ballast cans were on the main	25 <b>X</b> 1
quay near D-II unit 6, and only 11 or 12 remained in the storage area.	25 <b>X</b> 1
eight SS-NX-18 ballast cans were on the quay, and none were in the storage	25X1
area. Prior to 15 August, D-II SSBN unit 5 had been fitting-out along the main quay. No SS-	
NX-18 ballast cans were seen being loaded into unit 5; however, because such a large	
number of cans had been moved, it is likely that they had been loaded into D-II unit 5, as	

#### Comments

well as unit 6.

- 9. The dimensional difference between the missile bays of units 1 through 4 and those of units 5 through 8 indicates that there are two types of D-II SSBNs. The first type, D-II SSBN units 1 through 4, apparently carries the SS-N-8 missile. The second type, units 5 through 8 (and probably all the follow-on units), has been associated with and apparently carries the SS-NX-18 missile. Because of the difference in the size of the missile bay and in the missile system carried, unit 5 and the follow-on units will be reported as D-III-class SSBNs.
- 10. If the hull keel area of the D series is the same for all units, then it is possible that, by increasing the height of the missile bay and changing the launch tubes, the D-I- and D-II-class SSBNs could be modified to carry the SS-NX-18 missile. High-resolution photography of all units leaving overhaul facilities would be required to determine whether this modification were undertaken. Imagery of similar quality would also be necessary to distinguish unmodified D-II SSBNs from D-III SSBNs at operating bases.

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